

Translation

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PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference SK237WO	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/JP2003/008190	International filing date (day/month/year) 27 June 2003 (27.06.2003)	Priority date (day/month/year) 17 July 2002 (17.07.2002)
International Patent Classification (IPC) or national classification and IPC B32B 7/02, C09D 5/24, 7/12, 201/00		
Applicant SEKISUI CHEMICAL CO., LTD.		

<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>5</u> sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input type="checkbox"/> (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:</p> <p><input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>	
<p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>	

Date of submission of the demand 20 January 2004 (20.01.2004)	Date of completion of this report 03 August 2004 (03.08.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

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Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language _____, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
- ☐ publication of the international application (under Rule 12.4)
- ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☒ The international application as originally filed/furnished

- ☐ the description:

pages _____, as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

- ☐ the claims:

pages _____, as originally filed/furnished

pages* _____, as amended (together with any statement) under Article 19

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

- ☐ the drawings:

pages _____, as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages _____

☐ the claims, Nos. _____

☐ the drawings, sheets/figs _____

☐ the sequence listing (*specify*): _____

☐ any table(s) related to sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

☐ the description, pages _____

☐ the claims, Nos. _____

☐ the drawings, sheets/figs _____

☐ the sequence listing (*specify*): _____

☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-10	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-10	NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims		NO

2. Citations and explanations

- Document 1: JP 3-82537 A (Toray Industries, Inc.), 8 April 1991
- Document 2: JP 3-82535 A (Toray Industries, Inc.), 8 April 1991
- Document 3: JP 7-308997 A (Sekisui Chemical Co., Ltd.), 28 November 1995
- Document 4: JP 62-4761 A (Takiron Co., Ltd.), 10 January 1987
- Document 5: JP 61-57660 A (Sekisui Chemical Co., Ltd.), 24 March 1986
- Document 6: JP 5-239409 A (Hitachi Chemical Co., Ltd.), 17 September 1993
- Document 7: JP 62-270335 A (Fuji Photo Film Co., Ltd.), 24 November 1987

The invention set forth in claim 1 does not involve an inventive step in the light of documents 1-7, cited in the international search report. The claims of documents 1 and 2 disclose an antistatic layer on the surface of a base material, a surface resistivity of $10^{10} \Omega$ or less, and an average mid-line surface roughness of 0.010-0.025 μm (equivalent to 10-25 nm), and disclose examples in which surface resistivity is 10^9 - $10^7 \Omega$. Use of an

electrically conductive metal oxide as an antistatic agent is known, as disclosed in document 3-7; therefore, a person skilled in the art could easily deduce the feature of using an electrically conductive metal oxide as an antistatic agent in an antistatic layer disclosed in documents 1 and 2.

The inventions set forth in claims 2 and 3 do not involve an inventive step in the light of documents 1-7, cited in the international search report. Documents 3 and 5 disclose the feature of a haze value of 10% or less and a total transmittance of light radiation of 84% or greater.

The invention set forth in claim 4 does not involve an inventive step in the light of documents 1-7, cited in the international search report. Document 3 discloses articles with a three-dimensional shape having concavities and convexities.

The invention set forth in claim 5 does not involve an inventive step in the light of documents 1-7, cited in the international search report. Documents 5 and 6 disclose the feature of spray application of antistatic coatings.

The invention set forth in claim 6 does not involve an inventive step in the light of documents 1-7, cited in the international search report. Documents 3-7 disclose the use of tin oxide as an electrically conductive metal oxide.

The inventions set forth in claims 7 and 8 do not involve an inventive step in the light of documents 1-7, cited in the international search report. The composition

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of the coating and the particle size of the fine particles of electrically conductive metal oxide could be established at the discretion of a person skilled in the art with reference to the disclosures in documents 3, 5 and 6.

The invention set forth in claim 9 does not involve an inventive step in the light of documents 1-7, cited in the international search report. Documents 3-7 disclose the use of tin oxide as an electrically conductive metal oxide.

The invention set forth in claim 4 does not involve an inventive step in the light of documents 1-7, cited in the international search report. Documents 5 and 6 disclose the feature of spray application of antistatic coatings, and the viscosity for this purpose is such as could be established at the discretion of a person skilled in the art.